(11) EP 2 275 113 A1

(12)

EUROPEAN PATENT APPLICATION

published in accordance with Art. 153(4) EPC

(43) Date of publication: 19.01.2011 Bulletin 2011/03

(21) Application number: 09725050.0

(22) Date of filing: 26.03.2009

(51) Int Cl.:

A61K 36/18 (2006.01)
A61K 8/97 (2006.01)
A61K 31/365 (2006.01)
A61K 36/73 (2006.01)
A61K 36/73 (2006.01)
A61Q 19/00 (2006.01)

(86) International application number: **PCT/JP2009/001363**

(87) International publication number: WO 2009/119099 (01.10.2009 Gazette 2009/40)

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated Extension States:

AL BA RS

(30) Priority: 28.03.2008 JP 2008085350

(71) Applicant: Shiseido Company, Ltd. Chuo-ku
Tokyo 104-8010 (JP)

(72) Inventors:

 MORI, Keiko Yokohama-shi Kanagawa 224-8558 (JP)

 KATSUYAMA, Masako Yokohama-shi Kanagawa 224-8558 (JP) GOZU, Yoko Yokohama-shi

Kanagawa 224-8558 (JP)

 HAZE, Shinichiro Yokohama-shi Kanagawa 224-8558 (JP)

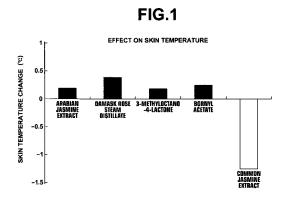
 JOUICHI, Atsushi Yokohama-shi Kanagawa 224-8558 (JP)

 TERAJIMA, Yushi Yokohama-shi Kanagawa 224-8558 (JP)

(74) Representative: Winkler, Andreas Fritz Ernst Forrester & Boehmert Pettenkoferstrasse 20-22 80336 München (DE)

(54) SKIN CIRCULATION-IMPROVING AGENT AND SKIN TEMPERATURE-ELEVATING AGENT

(57) The issue is to improve skin blood circulation and increase skin temperature to prevent or improve shoulder stiffness and sensitivity to cold. At least one of the members selected from the group consisting of an Arabian jasmine (matsurika, jasmin sambac) extract, a damask rose (Rosa damascena) steam distillate, 3-methyloctano-4-lactone, and bornyl acetate is contained as an active ingredient.



=P 2 275 113 A

Description

Technical Field

[0001] This invention relates to a skin circulation-improving agent for increasing a rate of skin blood circulation and a skin temperature-elevating agent for increasing skin temperature.

Background Art

20

- [0002] In the modern society, there has been an increase in the number of persons who complain of symptoms of sensitivity of the limbs to cold, numbness of the limbs, shoulder stiffness, swelling, and the like, due to various factors, such as lack of exercise, long-period labor in a specific posture at jobsites, air conditioning, and autonomic ataxia due to stress. It is thought that the symptoms described above are caused to occur primarily by a bad condition of blood circulation.
- [0003] If the circulation of the blood becomes poor due to badness or interruption in blood circulation, or the like, the warm blood does not sufficiently circulate to the periphery. Also, supply of oxygen and nutrients from the blood becomes stagnant. Moreover, waste materials and water are accumulated.
 - **[0004]** Also, humans, who are homoiothermic animals, are provided with a body temperature regulating function for keeping the body temperature at a specific value. The autonomic nervous system and the endocrine system are regulated by a command given from a body temperature regulation center, which is located at the hypothalamus of the brain and has perceived a change (stimulus) of the ambient temperature, and the body temperature is thereby kept at the specific value. However, if balance of the autonomic nerve is lost due to a mental or physical stress, or the like, the body temperature regulating function does not work well, and the body cannot appropriately cope with the cold. Also, the sympathetic nerve becomes predominant, contraction of blood vessels and tension of the muscles are sustained, and the badness in blood circulation thus arises.
 - **[0005]** Various attempts have been made in order to improve the symptoms accompanying the bad condition of blood circulation described above. For example, in patent literature 1, it is described that a hyssop extract improves blood fluidity and blood circulation, increases skin surface temperature, and can improve sensitivity to cold and shoulder stiffness.
- [0006] Also, in patent literature 2, it is described that a composition, which contains a cassis condensate and an amino acid or an organic acid, expands blood vessels, increases a peripheral blood circulation rate, and improves shoulder stiffness and sensitivity to cold.
 - **[0007]** Further, in patent literature 3, it is described that a smell of a chamomile extract improves blood circulation and increases peripheral skin temperature.
- [0008] However, there are large individual differences in sensitivity and preference with respect to the aforesaid compounds and compositions having been reported heretofore, and sufficiently satisfactory results have not yet been obtained with the aforesaid compounds and compositions. Therefore, there is a strong demand for a novel substance, which can more efficiently and generally achieve improvement in skin blood circulation and increase in skin temperature.
- 40 Patent literature 1:

Japanese Unexamined Patent Publication No. 2006-8575

Patent literature 2:

Japanese Unexamined Patent Publication No. 2004-262878

Patent literature 3:

Japanese Unexamined Patent Publication No. 2005-68069

Disclosure of Invention

Problems To Be Solved by the Invention

[0009] In view of the above circumstances, the object of the present invention is to provide a novel substance, which can safely and efficiently achieve increase in a rate of skin blood circulation and increase in skin temperature and can efficiently improve sensitivity to cold, shoulder stiffness, and the like.

2

55

50

45

Means for Solving the Problems

[0010] The inventors have found that each of an extract of Arabian jasmine (matsurika, jasmin sambac), which is a plant of the Jasminum genus in the Oleaceae family, a steam distillate of damask rose (Rosa damascena), which is a plant of the rose Turkish Rosaceae family, 3-methyloctano-4-lactone, and bornyl acetate increases the rate of the skin blood circulation and increases the skin temperature. The present invention is based upon the findings described above. [0011] Each of a skin circulation-improving agent and a skin temperature-elevating agent in accordance with the present invention is characterized by containing, as an active ingredient, at least one of the members selected from the group consisting of an Arabian jasmine (matsurika, jasmin sambac) extract, a damask rose (Rosa damascena) steam distillate, 3-methyloctano-4-lactone, and bornyl acetate. The inventors have confirmed that each of the above-enumerated compounds has a sympathetic nerve suppressing effect. It is presumed that, in cases where the autonomic nerve is sedately adjusted to regulate such that the working of the parasympathetic nerve becomes relatively predominant over the working of the sympathetic nerve, the blood circulation is improved through expansion of blood vessels and relief of the tension of the muscles, and the skin temperature increases by virtue of the warm blood circulating to the periphery through the good blood circulation.

[0012] Each of an agent for preventing or improving shoulder stiffness and an agent for preventing or improving sensitivity to cold in accordance with the present invention is characterized by containing, as an active ingredient, at least one of the members selected from the group consisting of an Arabian jasmine (matsurika, jasmin sambac) extract, a damask rose (Rosa damascena) steam distillate, 3-methyloctano-4-lactone, and bornyl acetate. In cases where the skin blood circulation is improved, and the skin temperature is increased, the warm blood circulates to the periphery, and metabolism is enhanced. Also, the supply of oxygen and nutrients from the blood and excretion of waste materials are enhanced, and the symptoms of the sensitivity to cold and the shoulder stiffness can be alleviated.

Effects of the Invention

20

25

30

35

40

45

50

55

[0013] Each of the skin circulation-improving agent, the skin temperature-elevating agent, and the like, in accordance with the present invention does not have a side effect, can increase the peripheral blood circulation rate or the skin temperature without being influenced by the sensitivities and the preferences of the individuals, and can safely and efficiently improve various symptoms due to a bad condition of blood circulation, such as the sensitivity to cold and the shoulder stiffness.

Best Mode for Carrying Out the Invention

[0014] Each of the skin circulation-improving agent, the skin temperature-elevating agent, the agent for preventing or improving shoulder stiffness, and the agent for preventing or improving sensitivity to cold (hereinbelow referred to as the skin circulation-improving agent or the like) in accordance with the present invention contains, as the active ingredient, at least one of the members selected from the group consisting of the Arabian jasmine (matsurika, jasmin sambac) extract, the damask rose (Rosa damascena) steam distillate, 3-methyloctano-4-lactone, and bornyl acetate.

[0015] The term "skin circulation improving" as used herein means that the rate of the blood circulation through the skin blood vessels is increased. For example, the improvement in skin circulation can be evaluated by fitting a probe to a finger, a toe, or the like, and measuring a change in blood circulation rate by use of a laser Doppler flow-meter (ADVANCE LASER FLOW-METER ALF21), or the like.

[0016] Also, the term "skin temperature elevating" as used herein means that the skin temperature is increased. For example, the elevation of the skin temperature can be evaluated by measuring a change in skin temperature of a cheek, a finger, a toe, or the like, by use of an 8ch body temperature logger (supplied by Nikkiso-Therm Co., Ltd.), or the like. [0017] Further, the term "preventing or improving" as used herein means that the occurrence of the symptoms is prevented, or that the symptoms are alleviated or relieved.

[0018] The Arabian jasmine (matsurika, jasmin sambac) is the plant of the Jasminum genus in the Oleaceae family. Whole grass, leaves, bark, branches, fruits, roots, or the like, of the Arabian jasmine can be used as such or after being pulverized. Particularly, flowers should preferably be used. The Arabian jasmine extract embraces in its scope an extract obtained from processing, wherein the extract part of the plant is subjected as such to the extraction, or processing, wherein the extract part of the plant is subjected to cutting into appropriate sizes or pulverization after being dried and is then subjected to the extraction, and a more active fraction (ingredient) obtained by further subjecting the aforesaid extract to separation and purification. For the extraction, it is possible to employ a solvent extraction technique, wherein the extract part of the plant is impregnated with a solvent at the room temperature or in a heated state, or wherein the extraction is performed by use of an extraction appliance, such as a Soxhlet's extractor, an extraction technique using a distillation technique, such as steam distillation, a super critical extraction technique, wherein the extract is obtained through with a carbonic acid gas being set in a super critical state, a press technique, wherein an extract is obtained through

pressing, or the like. Particularly, the extract obtained from the solvent extraction can be used preferably.

10

20

25

35

40

45

50

55

[0019] As the extraction solvent used for the solvent extraction, a polar solvent or a non-polar solvent can be used, and a mixture thereof can also be used. Examples of the extraction solvents include water; alcohols, such as methanol, ethanol, propanol, and butanol; polyhydric alcohols, such as ethylene glycol, propylene glycol, and butylene glycol; ketones, such as acetone and methyl ethyl ketone; esters, such as methyl acetate and ethyl acetate; chain and cyclic ethers, such as tetrahydrofuran and diethyl ether; polyethers, such as polyethylene glycol; halogenated hydrocarbons, such as dichloromethane, chloroform, and carbon tetrachloride; hydrocarbons, such as hexane, cyclohexane, and petroleum ether; aromatic hydrocarbons, such as benzene and toluene; pyridines; super critical carbon dioxide; fats and oils; wax; and other kinds of oils. Each of the above-enumerated solvents can be used alone, or at least two of the above-enumerated solvents can be used in combination. It is also possible to iterate extraction processes by using different kinds of the solvents. Of the above-enumerated solvents, it is preferable to use ethanol, dipropylene glycol, propylene glycol, and butylene glycol. The extraction can be performed, for example, by using 1 part to 50 parts by mass of the solvent with respect to 1 part by mass of the plant, and carrying out dipping or heat reflux at a temperature falling within the range of 3°C to 100°C for a period of time falling within the range of several hours to several weeks.

[0020] The damask rose (Rosa damascena) is the plant of the rose Turkish Rosaceae family. Whole grass, flowers, leaves, bark, branches, fruits, roots, or the like, of the damask rose can be used as such or after being pulverized. Particularly, flowers should preferably be used. The term "steam distillate" as used herein means the essential oil obtained with the steam distillation. The damask rose steam distillate used in the present invention can be prepared with processing, wherein the extract part of the plant is subjected as such to the ordinary steam distillation, or processing, wherein the extract part of the plant is subjected to cutting into appropriate sizes or pulverization after being dried and is then subjected to the ordinary steam distillation. The damask rose steam distillate also embraces in its scope a more active fraction (ingredient) obtained by further subjecting the aforesaid steam distillate to the separation and the purification. For example, the damask rose steam distillate can be prepared by blowing steam to the flowers or the dried flowers of the damask rose, collecting the resulting volatilized substance with cooling, and separating and recovering the oily part (the essential oil).

[0021] Each of the Arabian jasmine extract and the damask rose steam distillate may further be subjected to the separation and the purification. Examples of means for the separation and the purification include activated carbon treatment, liquid-liquid distribution, column chromatography, liquid chromatography, gel filtration, and precision distillation.

[0022] Each of 3-methyloctano-4-lactone and bornyl acetate used in the present invention can be synthesized by use of a known synthetic technique. Alternatively, a commercially available product may be used.

[0023] In the present invention, one of the members selected from the group consisting of the Arabian jasmine extract, the damask rose steam distillate, 3-methyloctano-4-lactone, and bornyl acetate may be used alone. Alternatively, at least two of the members selected from the group described above may be used in combination. In so far as the skin circulation-improving agent or the like in accordance with the present invention contains at least one of the aforesaid substances as the active ingredient and can accomplish the effects of the present invention, the form of the skin circulation-improving agent or the like is not limited particularly, and the skin circulation-improving agent or the like can be used in an arbitrary form, such as a liquid, a paste, a gel, or a solid. Also, the skin circulation-improving agent or the like in accordance with the present invention can contain other arbitrary ingredients, such as carriers, diluents, and auxiliaries, within a range such that the effects of the present invention are not obstructed.

[0024] The skin circulation-improving agent or the like in accordance with the present invention can be applied to arbitrary use applications, such as pharmaceutical preparations, quasi-drugs, cosmetic preparations, foods, and drinks. Also, since the active ingredient described above can exhibit the effects through vaporization, the skin circulation-improving agent or the like in accordance with the present invention can also be applied to clothes, daily-use goods, and the like. The object, in which the skin circulation-improving agent or the like in accordance with the present invention is contained, may be an arbitrary object, which can contain the skin circulation-improving agent or the like in a form such that the active ingredient described above can be vaporized and inhaled as vapor. The object is not limited by the preparation form and the product form. In accordance with the kind of the object, the skin circulation-improving agent or the like in accordance with the present invention may further contain arbitrary constituent elements, which are ordinarily contained in the object, besides the active ingredient described above. Furthermore, other arbitrary active drugs and the skin circulation-improving agent or the like in accordance with the present invention may be used together with each other.

[0025] Though it is not limited, examples of the product forms containing the skin circulation-improving agent or the like in accordance with the present invention include cosmetic preparations, pharmaceutical preparations, quasi-drugs, foods, and drinks. Also, examples of the preparation forms include liquids, powders, granules, aerosols, solids, and gels.

[0026] Though it is not limited, examples of the cosmetic preparations, which are one of particularly preferable embodiments, include perfumes, eau de toilette, eau de Cologne, creams, milky lotions, skin lotions, foundations, face powders, lipsticks, soaps, shampoos and rinses, body shampoos, body rinses, body powders, and bath preparations.

[0027] Also, the skin circulation-improving agent or the like in accordance with the present invention can be contained in arbitrary daily-use goods, such as aromatic products, deodorants, aroma candles, incense, writing materials, purses, bags, and shoes; and arbitrary clothes, such as underwear, dresses, hats and caps, stockings, and socks. The skin circulation-improving agent or the like in accordance with the present invention may be added to the materials for the daily-use goods and the clothes described above or the products of the daily-use goods and the clothes described above. [0028] The skin circulation-improving agent or the like in accordance with the present invention can be used in various embodiments exemplified above, but the embodiments of the skin circulation-improving agent or the like in accordance with the present invention are not limited to those exemplified above. In so far as the effects of the present invention can be used in arbitrary embodiments.

Examples

10

15

20

30

35

40

45

50

55

[0029] The present invention will further be illustrated by the following non-limitative examples. As the Arabian jasmine solvent extract and the damask rose steam distillate, those commercially available from Robertet were used. As 3-methyloctano-4-lactone, the compound commercially available from Soda Aromatic Co., Ltd. was used. Also, as bornyl acetate, the compound commercially available from Takasago International Corporation was used.

Test Example 1: Study of effect on skin temperature

[0030] The skin temperature of fingers was measured by use of 8ch Body Temperature Logger (supplied by Nikkiso-Therm Co., Ltd.), and a change in skin temperature due to smelling of a test substance was investigated. The effect on the peripheral skin temperature was thus studied. A solvent extract of a common jasmine (Jasminum officinale) belonging to the Jasminum genus in the Oleaceae family was used as a control, and the evaluation was made in the same manner.

[0031] A woman in her twenties was employed as a subject, and the test was made in a constant temperature and humidity room at a temperature of 25°C and a humidity of 50%.

[0032] The subject was seated on an easy chair and allowed to take a rest for 30 minutes. Thereafter, body temperature sensors were fitted to inner surface sides of third fingers of both hands of the subject and to two sites of the chest of the subject, and a change in skin temperature at each site with the passage of time was recorded. Since it had been found that little change arose in skin temperature at the chest, the skin temperatures at the chest were employed as reference values. The change in peripheral skin temperature was evaluated by use of a value (T value) obtained by subtracting a mean value of the skin temperatures at the two sites of the chest from the mean value of the skin temperatures at the two fingertip sites.

[0033] One sequence of measurement tests was composed of (A) a rest for three minutes, (B) attaching of an odorless cotton piece under the nose for three minutes, (C) a rest for three minutes, (D) attaching of a test sample-impregnated cotton piece under the nose for three minutes, (E) a rest for three minutes, (F) attaching of an odorless cotton piece under the nose for three minutes, and (G) a rest for three minutes. The skin temperature was measured successively during the one sequence, and the T values were calculated.

[0034] The T values obtained at the times of (B) and (F), at each of which the odorless cotton piece was attached, were taken as the controls and were compared with the T value obtained at the time of (D), at which the vapor of the test sample was inhaled. The effect of each substance on the skin temperature was thus investigated. Specifically, the formula shown below was utilized.

Skin temperature change (°C)

= T value (D) - (mean value of T value (B) and T value (F))

[0035] The results are shown in Figure 1. It was indicated that, in cases where the subject was allowed to take the smell of the Arabian jasmine extract, the damask rose steam distillate, 3-methyloctano-4-lactone, or bornyl acetate with the nose, the skin temperatures of the fingers of the subject were increased, and that each of these substances thus had the skin temperature increasing effect.

[0036] Also, though it is not illustrated by data, in cases where the subject was allowed to take the smell of the Arabian jasmine extract, the damask rose steam distillate, 3-methyloctano-4-lactone, or bornyl acetate with the nose, the skin temperatures of the toes and the cheeks of the subject could be increased.

Test Example 2: Study of effect on skin blood circulation

[0037] The skin blood circulation rate of fingers was measured by use of the laser Doppler flow-meter (ADVANCE LASER FLOW-METER ALF21), and the effect of the Arabian jasmine extract on the skin blood circulation was evaluated. [0038] Six persons (men and women) were employed as subjects, and the test was made in a constant temperature and humidity room having been adjusted at a temperature of 22°C and a humidity of 45%. Each of the subjects was

seated on an easy chair and allowed to take a rest for 30 minutes. Thereafter, a probe of the flow-meter was fitted to the inner surface side of the third finger of the right hand of the subject, and a change in blood circulation rate with the passage of time was recorded. One sequence of measurement tests was composed of (A) a rest for three minutes, (B) attaching of an odorless cotton piece under the nose for three minutes, (C) a rest for three minutes, (F) attaching of a test sample-impregnated cotton piece under the nose for three minutes, (E) a rest for three minutes, (F) attaching of an odorless cotton piece under the nose for three minutes, and (G) a rest for three minutes. The blood circulation rate was measured successively during the one sequence.

[0039] The blood circulation rates obtained at the times of (B) and (F), at each of which the odorless cotton piece was attached, were taken as the controls and were compared with the blood circulation rate obtained at the time of (D), at which the vapor of the test sample was inhaled. The effect of each substance on the skin blood circulation rate was thus investigated. Specifically, the formula shown below was utilized.

Blood circulation rate change (ml/min/100g) = blood circulation rate (D) - (mean value of blood circulation rate (B) and blood circulation rate (F))

[0040] The results are shown in Figure 2. It was indicated that, in cases where each of the subjects was allowed to take the smell of the Arabian jasmine extract with the nose, the skin blood circulation rate was increased, and that the Arabian jasmine extract thus had the skin blood circulation improving effect.

Test Example 3: Study of effects on symptoms of sensitivity to cold and shoulder stiffness

20

30

35

40

[0041] As one of causes of the sensitivity to cold, the shoulder stiffness, and the like, the decreasing in blood circulation is considered. Therefore, the improvement effects of the Arabian jasmine extract on the symptoms of the sensitivity to cold and the shoulder stiffness were investigated.

[0042] Four persons (men and women) aware of the sensitivity to cold were employed as the subjects, and the test was made in a constant temperature and humidity room having been adjusted at a temperature of 22°C and a humidity of 45%. Each of the subjects was seated on an easy chair and allowed to take a rest for 30 minutes. Thereafter, an odorless cotton piece was attached under the nose of the subject. After a period of time of three minutes had elapsed, each of the extents of the sensitivity to cold and the shoulder stiffness was evaluated subjectively on a five-point scale. Thereafter, a cotton piece impregnated with the Arabian jasmine extract was attached under the nose, and the vapor of the extract was inhaled with natural breathing for three minutes. Thereafter, each of the extents of the sensitivity to cold and the shoulder stiffness was again evaluated subjectively on the five-point scale.

[0043] The results are shown in Figure 3. It was indicated that, in cases where each of the subjects was allowed to take the smell of the Arabian jasmine extract with the nose, the results of the warming of the hands, feet, and the entire body were obtained as an actual feeling and that, in such cases, the symptoms of the shoulder stiffness were improved. [0044] Application examples of typical product forms, such as various compositions, daily-use goods, and clothes, containing the skin circulation-improving agent, the skin temperature-elevating agent, the agent for preventing or improving shoulder stiffness, or the agent for preventing or improving sensitivity to cold in accordance with the present invention will be described hereinbelow. In each of the application examples, the containing quantity is expressed in terms of % by mass with respect to the total quantity of the product. As the skin circulation-improving agent or the like in accordance with the present invention, one of the members selected from the group consisting of the Arabian jasmine extract, the damask rose steam distillate, 3-methyloctano-4-lactone, and bornyl acetate was contained alone, or at least two of the members selected from the group described above were contained in combination.

Application Example 1

Skin lotion	
(1) Glycerol	2.0
(2) Dipropylene glycol	2.0
(3) PEG-60 hydrogenated castor oil	0.3
(4) Trimethylglycine	0.1
(5) Preservative	Proper quantity
(6) Chelating agent	Proper quantity
(7) Dye	Proper quantity
(8) Skin circulation-improving agent	
(Arabian jasmine (matsurika,	
jasmin sambac) extract)	0.05
(9) Purified water	Balance
	 (1) Glycerol (2) Dipropylene glycol (3) PEG-60 hydrogenated castor oil (4) Trimethylglycine (5) Preservative (6) Chelating agent (7) Dye (8) Skin circulation-improving agent (Arabian jasmine (matsurika, jasmin sambac) extract)

	Application Example 2	1
	Skin lotion	
5	(1) Alcohol	30.0
5	(2) Butylene glycol	4.0
	(3) Glycerol	2.0
	(4) PPG-13 decyltetradeth-24	0.3
	(5) Octylmethoxy cinnamate	0.1
10	(6) Menthol	0.2
	(7) Tocopheryl acetate	0.1
	(8) Chelating agent	Proper quantity
	(9) Dye	Proper quantity
	(10) Skin circulation-improving agent	
15	(bornyl acetate)	0.01
	(11) Purified water	Balance
20	Application Example 3	<u>.</u>
	Milky lotion	
	(1) Stearic acid	2.0
	(2) Cetyl alcohol	1.5
	(3) Vaseline	4.0
25	(4) Squalane	5.0
	(5) Glycerol tri-2-ethylhexanoic	
	acid ester	2.0
	(6) Sorbitan monooleic acid ester	2.0
30	(7) Dipropylene glycol	5.0
	(8) PEG1500	0.3
	(9) Triethanolamine	0.1
	(10) Preservative	Proper quantity
	(11) Skin circulation-improving agent	
35	(3-methyloctano-4-lactone)	0.2
	(12) Purified water	Balance
	Application France A	
40	Application Example 4	<u> </u>
	Milky lotion	10.0
	(1) Ethyl alcohol	0.1
	(2) Cyclomethicone	5.0
45	(3) Butylene glycol(4) Dimethicone	3.0
		0.1
	(5) Glycene	1.0
	(6) Menthol(7) Trimethylsiloxysilicic acid	0.1
	. ,	1.0
50	(8) Caffeine(9) Trimethylglycine	1.0
	(10) Xanthan gum	0.001
	-	0.001
	(11) Hydroxyethyl cellulose	1.0
55	(12) Soybean fermentation extract	0.5
	(13) Lauryl betaine(14) Carbomer	0.5
	(15) Chelating agent	Proper quantity

	(continued)	
	Milky lotion	
	(16) Paraben	Proper quantity
-	(17) Benzoic acid	Proper quantity
5	(18) Skin temperature-elevating agent	
	(bornyl acetate)	0.1
	(19) Iron oxide	Proper quantity
	(20) Potassium hydroxide	0.05
10	(21) Dicalcium glycyrrhizinate	0.01
	(22) Pyridoxine hydrochloride	0.01
	(23) Ascorbic acid glucoside	0.01
	(24) Arbutin	3.0
	(25) Extract of Saxifraga stolonifera	0.0
15	Meerb.	0.1
	(26) Water	Balance
	(20) Water	Dalance
20	Application Example 5	
	Milky lotion	
	(1) Butylene glycol	4.0
	(2) Propylene glycol	4.0
	(3) Carbomer	0.2
25	(4) Potassium hydroxide	0.2
	(5) Behenic acid	0.5
	(6) Stearic acid	0.5
	(7) Isostearic acid	0.5
30	(8) Glyceryl stearate	1.0
	(9) Glyceryl isostearate	1.0
	(10) Behenyl alcohol	0.5
	(11) Squalane	5.0
	(12) Trioctanoin	3.0
35	(13) Phenyl trimethicone	2.0
	(14) Batyl alcohol	0.5
	(15) Dicalcium glycyrrhizinate	0.01
	(16) Preservative	Proper quantity
40	(17) Chelating agent	Proper quantity
40	(18) Pigment	Proper quantity
	(19) Skin temperature-elevating agent	., , , , ,
	(damask rose (Rosa damascena)	
	steam distillate)	0.1
45	(20) Skin temperature-elevating agent	
	(Arabian jasmine (matsurika,	
	jasmin sambac) extract)	0.05
	(21) Purified water	Balance
50		
	Application Example 6	
	Milky lotion	
	(1) Glycerol	3.0
55	(2) Xylitol	2.0
	(3) Carbomer	0.1
	(4) Potassium hydroxide	0.1
	(,	.

	Milky lotion	
	(5) Glyceryl isostearate	1.0
	(6) Glyceryl stearate	0.5
5	(7) Behenyl alcohol	1.0
	(8) Batyl alcohol	1.0
	(9) Hydrogenated palm oil	2.0
	(10) Vaseline	1.0
10	(11) Squalane	5.0
	(12) Erythrityl octanoate	3.0
	(13) Cyclomethicone	1.0
	(14) Preservative	Proper quantity
	(15) Chelating agent	Proper quantity
15	(16) Skin circulation-improving agent	
	(damask rose (Rosa damascena)	
	steam distillate)	0.2
	(17) Purified water	Balance
20	(18) Tranexamic acid	1.0
	(19) Pantothenyl ethyl ether	0.5
	(20) Nicotinic acid amide	0.1
	(21) Trehalose	0.1
	(22) Rosemary extract	0.1
25	(23) Vitamin A	0.1
	(24) Ascorbic acid glycoside	0.001
	(25) Raspberry extract	1.0
	(26) Scutellaria Root extract	0.001
30	(27) Phellodendron Bark extract	0.01
		_
	Application Example	<u>7</u>
35	Milky lotion	_
35	Milky lotion (1) Ethanol	2.0
35	Milky lotion (1) Ethanol (2) Cyclomethicone	2.0 10.0
35	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol	2.0 10.0 5.0
35	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol	2.0 10.0 5.0 1.0
<i>35 40</i>	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone	2.0 10.0 5.0 1.0 1.0
	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch	2.0 10.0 5.0 1.0 1.0 4.0
	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil	2.0 10.0 5.0 1.0 1.0 4.0 2.0
	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0
	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid (9) Polyethylene glycol	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0 3.0
40	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid (9) Polyethylene glycol (10) Menthyl lactate	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0 3.0 0.1
40	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid (9) Polyethylene glycol (10) Menthyl lactate (11) PEG-60 hydrogenated castor oil	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0 3.0 0.1 1.0
40	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid (9) Polyethylene glycol (10) Menthyl lactate (11) PEG-60 hydrogenated castor oil (12) Aminopropyl dimethicone	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0 3.0 0.1 1.0
40 45	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid (9) Polyethylene glycol (10) Menthyl lactate (11) PEG-60 hydrogenated castor oil (12) Aminopropyl dimethicone (13) Xanthan gum	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0 3.0 0.1 1.0 1.0
40	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid (9) Polyethylene glycol (10) Menthyl lactate (11) PEG-60 hydrogenated castor oil (12) Aminopropyl dimethicone (13) Xanthan gum (14) Tocopheryl acetate	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0 3.0 0.1 1.0 1.0 0.01
40 45	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid (9) Polyethylene glycol (10) Menthyl lactate (11) PEG-60 hydrogenated castor oil (12) Aminopropyl dimethicone (13) Xanthan gum (14) Tocopheryl acetate (15) Caffeine	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0 3.0 0.1 1.0 0.01 0.01
40 45	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid (9) Polyethylene glycol (10) Menthyl lactate (11) PEG-60 hydrogenated castor oil (12) Aminopropyl dimethicone (13) Xanthan gum (14) Tocopheryl acetate (15) Caffeine (16) Sodium hyaluronate	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0 3.0 0.1 1.0 1.0 0.01 0.01 0.1
40 45	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid (9) Polyethylene glycol (10) Menthyl lactate (11) PEG-60 hydrogenated castor oil (12) Aminopropyl dimethicone (13) Xanthan gum (14) Tocopheryl acetate (15) Caffeine (16) Sodium hyaluronate (17) Soybean fermentation extract	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0 3.0 0.1 1.0 0.01 0.01 0.1 0.1
40 45	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid (9) Polyethylene glycol (10) Menthyl lactate (11) PEG-60 hydrogenated castor oil (12) Aminopropyl dimethicone (13) Xanthan gum (14) Tocopheryl acetate (15) Caffeine (16) Sodium hyaluronate (17) Soybean fermentation extract (18) Hamamelis extract	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0 3.0 0.1 1.0 1.0 0.01 0.01 0.1
40 45 50	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid (9) Polyethylene glycol (10) Menthyl lactate (11) PEG-60 hydrogenated castor oil (12) Aminopropyl dimethicone (13) Xanthan gum (14) Tocopheryl acetate (15) Caffeine (16) Sodium hyaluronate (17) Soybean fermentation extract (18) Hamamelis extract (19) Extract of Houttuynia cordata	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0 3.0 0.1 1.0 0.01 0.01 0.01 0.01 0.01
40 45 50	Milky lotion (1) Ethanol (2) Cyclomethicone (3) Glycerol (4) Dibutylene glycol (5) Dimethicone (6) Corn starch (7) Mineral oil (8) Trimethylsiloxysilicic acid (9) Polyethylene glycol (10) Menthyl lactate (11) PEG-60 hydrogenated castor oil (12) Aminopropyl dimethicone (13) Xanthan gum (14) Tocopheryl acetate (15) Caffeine (16) Sodium hyaluronate (17) Soybean fermentation extract (18) Hamamelis extract	2.0 10.0 5.0 1.0 1.0 4.0 2.0 5.0 3.0 0.1 1.0 1.0 0.01 0.01 0.01 0.01 0.01 0.01 0.01

	(continued)	
	Milky lotion	
	copolymer	0.2
5	(22) EDTA	Proper quantity
	(23) Preservative	Proper quantity
	(24) Skin temperature-elevating agent	
	(bornyl acetate)	0.3
	(25) Pigment	Proper quantity
10	(26) Potassium hydroxide	0.15
	(27) Aminomethylpropanol	0.05
	(28) Water	Balance
15		
10	Application Example 8	
	Milky lotion	
	(1) Ethanol	15.0
	(2) Cyclomethicone	6.0
20	(3) Butylene glycol	0.5
	(4) Dimethicone	1.0
	(5) Glycerol	1.0
	(6) Polyethylene glycol	1.0
	(7) Menthyl lactate	1.0
25	(8) Menthol	0.1
	(9) Trimethylsiloxysilicic acid	1.0
	(10) Caffeine	0.5
	(11) Trimethyleneglycine	0.1
30	(12) Xanthan gum	0.1
	(13) Hydroxyethyl cellulose	0.1
	(14) Soybean fermentation extract	0.01
	(15) Tocopheryl acetate	0.05
	(16) Lauryl betaine	0.01
35	(17) Brown algae extract	0.01
	(18) Extract of Houttuynia cordata	0.01
	(19) Red algae extract	0.01
	(20) Green algae extract	0.01
40	(21) Cellulose powder	1.0
40	(22) PEG-60 glyceryl isostearate	1.0
	(23) Isostearic acid	1.0
	(24) Carbomer	0.1
	(25) Acrylic acid-alkyl methacrylate	
45	copolymer	0.1
	(26) EDTA	0.1
	(27) Sodium metaphosphate	0.1
	(28) Phenoxy ethanol	0.2
50	(29) Paraben	0.2
50	(30) Skin temperature-elevating ager	
	(3-methyloctano-4-lactone)	0.20
	(31) Skin temperature-elevating ager	
	(bornyl acetate)	0.15
55	(32) Iron oxide (red)	0.02
	(33) Menthyl glyceryl ether	0.01
	(34) Water	Balance
	X . /	

Application Example 9

	Application Example	<u>9</u>
	Cream	
	(1) Glycerol	10.0
5	(2) Butylene glycol	5.0
	(3) Carbomer	0.1
	(4) Potassium hydroxide	0.2
	(5) Stearic acid	2.0
10	(6) Glyceryl starate	2.0
	(7) Glyceryl isostearate	2.0
	(8) Vaseline	5.0
	(9) Preservative	Proper quantity
	(10) Antioxidant	Proper quantity
15	(11) Skin circulation-improving agent	
	(damask rose (Rosa damascena)	
	steam distillate)	0.3
	(12) Purified water	Balance
20	(13) Chelating agent	Proper quantity
20	(14) Pigment	Proper quantity
	(15) Stearyl alcohol	2.0
	(16) Behenyl alcohol	2.0
	(17) Hydrogenated palm oil	2.0
25	(18) Squalane	10.0
	(19) Potassium 4-methoxysalicylate	3.0
30	Application Example	<u>10</u>
	Cream	
	(1) Glycerol	3.0
	(2) Dipropylene glycol	7.0
	(3) Polyethylene glycol	3.0
35	(4) Glyceryl stearate	3.0
	(5) Glyceryl isostearate	2.0
	(6) Stearyl alcohol	2.0
	(7) Behenyl alcohol	2.0
40	(8) Liquid paraffin	7.0
	(9) Cyclomethicone	3.0
	(10) Dimethicone	1.0
	(11) Octylmethoxy cinnamate	0.1
	(12) Sodium hyaluronate	0.05
45	(13) Preservative	Proper quantity
	(14) Antioxidant	Proper quantity
	(15) Skin circulation-improving agent	
	(Arabian jasmine (matsurika,	
50	jasmin sambac) extract)	0.3
	(16) Skin circulation-improving agent	
	(3-methyloctano-4-lactone)	0.1
	(17) Purified water	Balance
	• •	
	(18) Chelating agent	Proper quantity
55	• •	Proper quantity Proper quantity

	Application Example	<u>11</u>
	Gel (1) Ethyl alcohol	10.0
5	(2) Glycerol	5.0
	(3) Butylene glycol	5.0
	(4) Carbomer	0.5
	(5) Aminomethylpropanol	0.3
40	(6) PEG-60 hydrogenated castor oil	0.3
10	(7) Menthol	0.02
	(8) Preservative	Proper quantity
	(9) Chelating agent	Proper quantity
	(10) Skin temperature-elevating agent	op o. quay
15	(damask rose (Rosa damascena)	
	steam distillate)	0.05
	(11) Skin temperature-elevating agent	
	(bornyl acetate)	0.1
•	(12) Purified water	Balance
20	(1-)	24.4.700
	Application Example	<u>12</u>
25	Aerosol	2.0
	(1) Glycerol	2.0
	(2) Dipropylene glycol	2.0
	(3) PEG-60 hydrogenated castor oil	0.3 1.0
	(4) HPPCD	
30	(5) Preservative	Proper quantity
	(6) Chelating agent	Proper quantity
	(7) Dye	Proper quantity
	(8) Skin circulation-improving agent	
35	(Arabian jasmine (matsurika, jasmin sambac) extract)	0.2
	(9) Purified water	Proper quantity Balance
	(10) LPG	Balance
40	Application Example	13
	Aerosol	
	(1) Alcohol	15.0
	(2) Butylene glycol	2.0
45	(3) Glycerol	1.0
	(4) PPG-13 decyltetradeth-24	0.1
	(5) Silver-carrying zeolite	1.0
	(6) Chelating agent	Proper quantity
50	(7) Dye	Proper quantity
JU	(8) Skin circulation-improving agent	,
	(bornyl acetate)	0.15
	(9) Purified water	Balance
	(10) LPG	40.0
55	, ,	

	EP 2 275 113 A1	
	Application Example	14
	Aerosol	_
	(1) Ethanol	60.0
_	(2) Menthyl lactate	0.1
5	(3) Sodium lactate	0.1
	(4) Tocopheryl acetate	0.01
	(5) Lactic acid	0.01
	(6) Caffeine	0.01
10	(7) Fennel extract	1.0
	(8) Hamamelis extract	1.0
	(9) Extract of Houttuynia cordata	1.0
	(10) Dipropylene glycol	1.0
	(11) Nitrogen gas	0.9
15	(12) Polyoxyethylene polyoxypropy	lene
	decyltetradecyl ether	1.0
	(13) Butylene glycol	2.0
	(14) Tocopherol	0.05
20	(15) Skin temperature-elevating age	ent
	(Arabian jasmine (matsurika,	
	jasmin sambac) extract)	0.05
	(16) Skin temperature-elevating age	ent
	(damask rose (Rosa damascena)	
25	steam distillate)	0.05
	(17) PEG-60 hydrogenated castor of	oil 0.1
	(18) Water	Balance
30		
	Application Example	<u>15</u>
	Shampoo	
	(1) Lauryl polyexyethylene (3)	
25	sulfuric acid ester sodium salt	
35	(30% aqueous solution)	30.0
	(2) Lauryl sulfuric acid ester	
	sodium salt (30% aqueous solution)	10.0
	(3) Coconut oil fatty acid	
40	diethanolamide	4.0
	(4) Glycerol	1.0
	(5) Preservative	Proper quantity
	(6) Skin circulation-improving agent	
	(bornyl acetate)	0.5
45	(7) Colorant	Proper quantity
	(8) Sequestering agent, pH adjustor	Proper quantity
	(9) Purified water	Balance
50	Application Francis	16
	Application Example	10
	Rinse	

(1) Silicone oil

55

(2) Liquid paraffin

(3) Cetyl alcohol

(4) Stearyl alcohol

(5) Stearyl trimethyl ammonium chloride

1	3
•	J

3.0

1.0

1.5

1.0

0.7

(continued)

5	Rinse (6) Glycerol (7) Skin temperature-elevating agent (damask rose (Rosa damascena) steam distillate)	3.0 0.5
10	(8) Colorant, preservative(9) Purified water	Proper quantity Balance
	Application Example	17
	Body shampoo	
	(1) Lauric acid	2.5
15	(2) Myristic acid	5.0
	(3) Palmitic acid	2.5
	(4) Oleic acid	2.5
	(5) Cocoyl diethanolamide	1.0
20	(6) Glycerol	20.0
	(7) Potassium hydroxide	3.6
	(8) Dye	Proper quantity
	(9) Skin circulation-improving agent	
	(damask rose (Rosa damascena)	
25	steam distillate)	0.5
	(10) Sequestering agent	Proper quantity
	(11) Purified water	Balance
30		
30	Application Example	<u>18</u>
	Fragrance	
	(1) Alcohol	75.0
35	(2) Purified water	Balance
	(3) Dipropylene glycol	5.0
	(4) Skin temperature-elevating agent	
	(3-methyloctano-4-lactone)	10.0
	(5) Antioxidant	8.0
40	(6) Colorant	Proper quantity
	(7) UV-absorber	Proper quantity

[0045] The term "fragrance" as used herein means the solution of the essential oil dissolved in an alcohol (e.g., ethyl alcohol) or an aqueous alcohol. The fragrance contains the essential oil in a containing quantity falling within the range of 1% to 99% by mass. The containing ratio of water to the alcohol falls within the range between 50:50 and 0:100. The fragrance can contain solubilizers, softening agents, humectants, thickening agents, bacteriostatic agents, or other materials which are ordinarily used in cosmetic preparations.

50	Application Example 19	
50	Room fragrance	
	(1) Alcohol	80.0
	(2) Purified water	Balance
	(3) Antioxidant	5.0
55	(4) Skin circulation-improving agent	
	(Arabian jasmine (matsurika,	
	jasmin sambac) extract)	2.0

45

	(continued)	
	Room fragrance	
	(5) Skin circulation-improving agent	
5	(3-methyloctano-4-lactone)	1.0
	(6) 3-Methyl-3-methoxy butanol	5.0
	(7) Dibenzylidene sorbitol	5.0
10	Application Example 20	
	Incense	
	(1) Machilus thunbergii powder	75.5
	(2) Sodium benzoate	15.5
	(3) Skin circulation-improving agent	
15	(bornyl acetate)	5.0
	(4) Eucalyptus oil	1.0
	(5) Fennel oil	1.0
	(6) Purified water	Balance
20	(o) i dimed water	Dalarice
	Application Example 21	
	Bath preparation	
	(1) Sodium sulfate	45.0
25	. ,	
	(2) Sodium hydrogencarbonate	45.0
	(3) Hyssop oil	9.0
	(4) Skin temperature-elevating agent	
	(damask rose (Rosa damascena)	
30	steam distillate)	1.0
	Application Example 22	
	·	
35	Massage gel	2.0
	(1) Erythritol	2.0
	(2) Caffeine	5.0
	(3) Phellodendron Bark extract	3.0
	(4) Glycerol	50.0
40	(5) Carboxyvinyl polymer	0.4
	(6) Polyethylene glycol 400	30.0
	(7) Trisodium edetate	0.1
	(8) Polyoxylene-(10)-methylpolysiloxane	Э
45	copolymer	2.0
45	(9) Squalane	1.0
	(10) Potassium hydroxide	0.15
	(11) Skin circulation-improving agent	
	(Arabian jasmine (matsurika,	
50	jasmin sambac) extract)	0.3
	(12) Skin circulation-improving agent	
	(damask rose (Rosa damascena)	
	steam distillate)	0.2
	(13) Skin circulation-improving agent	٧.٢
55	(3-methyloctano-4-lactone)	0.5
	(5strijiostario i lactorio)	0.0

Application Example 23

	Massage cream	
	(1) Solid paraffin	5.0
5	(2) Beeswax	10.0
	(3) Vaseline	15.0
	(4) Liquid paraffin	41.0
	(5) 1,3-Butylene glycol	4.0
10	(6) Glycerol monostearate	2.0
	(7) POE (20) sorbitan monolauric	
	acid ester	2.0
	(8) Borax	0.2
	(9) Caffeine	2.0
15	(10) Preservative	Proper quantity
	(11) Antioxidant	Proper quantity
	(12) Skin circulation-improving agent	
	(bornyl acetate)	1.0
20	(13) Purified water	Balance
==		

Application Example 24

Aromatic fiber

25

30

55

[0046] Micro-capsules (particle diameters: at most 50µm, ratio of the essential oil occupying the micro-capsules: 50% by weight), in which the skin circulation-improving agent (the damask rose (Rosa damascena) steam distillate) in accordance with the present invention had been encapsulated, were added into a cuprammonium cellulose solution (cellulose concentration: 10% by weight, ammonium concentration: 7% by weight, copper concentration: 3.6% by weight) in a quantity falling within the range of 0.1% to 20% by weight with respect to the weight of the cellulose. The resulting mixture was kneaded and was then spun according to the ordinary wet spinning technique. Scouring and drying were then performed, and an aromatic fiber was thus obtained.

	then performed, and an aromatic liber was thus obtained.	
	Application Example 25	
35	Granule	
	(1) Sucralose	0.1
	(2) Skin temperature-elevating agent	
	(damask rose (Rosa damascena)	
40	steam distillate)	0.1
40	(3) Flavoring	5.0
	(4) Excipient (Ceolus)	10.0
	(5) Maltitol	Balance
45		
	Application Example 26	
	Tablet (chewable type)	
	(1) Inositol	11.0
50	(2) Maltitol	21.0
	(3) Sucrose	0.5
	(4) Salmon milt extract (DNA Na)	0.1

(5) Yeast extract

(7) Flavoring

(8) Excipient

(6) Skin circulation-improving agent

(3-methyloctano-4-lactone)

0.1

0.1

5.0

Balance

Application Example 27

	Application Example 2	<u>-</u>
	Tablet	
	(1) Lubricant (sucrose fatty acid	
5	ester, or the like)	1.0
	(2) Aqueous gum arabic solution (5%)	2.0
	(3) Acid taste agent	1.0
	(4) Colorant	Proper quantity
10	(5) Skin temperature-elevating agent	
	(Arabian jasmine (matsurika,	
	jasmin sambac) extract)	0.1
	(6) Glucide (sugar powder, sorbitol,	
	or the like)	Balance
15		
	Application Example 2	<u>8</u>
	Candy	
20	(1) Sugar	50.0
	(2) Thick malt syrup	47.95
	(3) Organic acid	2.0
	(4) Skin temperature-elevating age	ent
25	(bornyl acetate)	0.05
25		

Application	Example	le 29
-------------	---------	-------

	Application Example 25	
(Chewing gum	
((1) Sugar	43.0
((2) Gum base	30.95
((3) Glucose	10.0
((4) Thick malt syrup	16.0
((5) Skin circulation-improving agent	
((damask rose (Rosa damascena)	
;	steam distillate)	0.02
((6) Skin circulation-improving agent	
((3-methyloctano-4-lactone)	0.03

[0047] By use tests having been made in typical embodiments of the corresponding product forms, it was confirmed that each of the various kinds of the compositions, the daily-use goods, the clothes, and the like, obtained in the application examples described above could improve the shoulder stiffness or the sensitivity to cold.

45 Brief Description of Drawings

[0048]

30

35

40

50

55

Figure 1 is a graph showing an effect on skin temperature,

Figure 2 is a graph showing an effect on skin blood circulation, and

Figure 3 is a graph showing effects on symptoms of sensitivity to cold and shoulder stiffness.

Claims

1. A skin circulation-improving agent, containing, as an active ingredient, at least one of the members selected from the group consisting of an Arabian jasmine (matsurika, jasmin sambac) extract, a damask rose (Rosa damascena)

steam distillate, 3-methyloctano-4-lactone, and bornyl acetate.

- 2. A skin temperature-elevating agent, containing, as an active ingredient, at least one of the members selected from the group consisting of an Arabian jasmine (matsurika, jasmin sambac) extract, a damask rose (Rosa damascena) steam distillate, 3-methyloctano-4-lactone, and bornyl acetate.
- **3.** An agent for preventing or improving shoulder stiffness, containing, as an active ingredient, at least one of the members selected from the group consisting of an Arabian jasmine (matsurika, jasmin sambac) extract, a damask rose (Rosa damascena) steam distillate, 3-methyloctano-4-lactone, and bornyl acetate.
- **4.** An agent for preventing or improving sensitivity to cold, containing, as an active ingredient, at least one of the members selected from the group consisting of an Arabian jasmine (matsurika, jasmin sambac) extract, a damask rose (Rosa damascena) steam distillate, 3-methyloctano-4-lactone, and bornyl acetate.

FIG.1

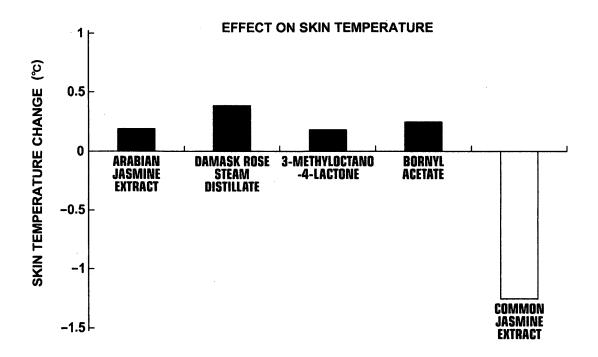


FIG.2

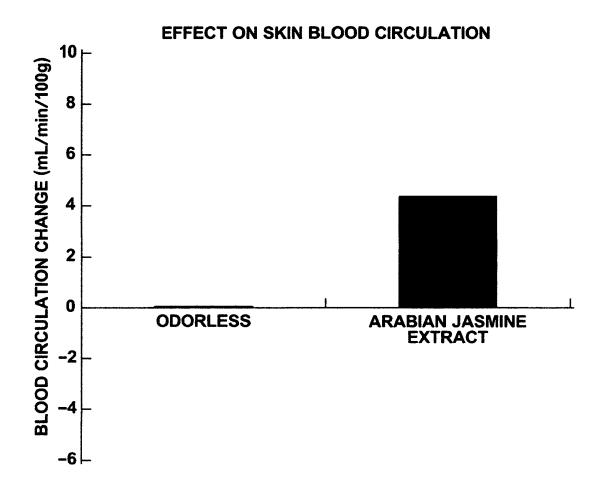
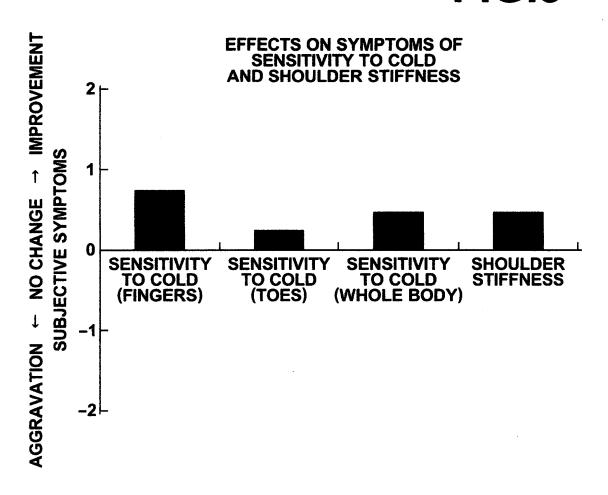


FIG.3



INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2009/001363 A. CLASSIFICATION OF SUBJECT MATTER A61K36/18(2006.01)i, A61K8/49(2006.01)i, A61K8/97(2006.01)i, A61K31/215 (2006.01)i, A61K31/365(2006.01)i, A61K36/00(2006.01)i, A61K36/73 (2006.01)i, A61Q19/00(2006.01)i According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) A61K36/18, A61K8/49, A61K8/97, A61K31/215, A61K31/365, A61K36/00, A61K36/73, A61Q19/00 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2009 Kokai Jitsuyo Shinan Koho 1971-2009 Toroku Jitsuyo Shinan Koho 1994-2009 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CA/BIOSIS/MEDLINE/WPIDS(STN), JSTPlus/JMEDPlus/JST7580(JDreamII) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Χ Koji UMEKAWA et al., "Konenkishogai to Aromatherapy - Rose to Rosemary o Chushin ni", Obstetrics & Gynecology, 1999, Vol.66, No.10, pages 1350 to 1354 JP 2006-241044 A (Shiseido Co., Ltd.), 3 Χ 14 September, 2006 (14.09.06), Par. No. [0026] (Family: none) DE 102005006791 A1 (FELFOELDI POTPOURRI), 07 September, 2006 (07.09.06), X Par. Nos. [0045], [0057] (Family: none) X Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority document defining the general state of the art which is not considered to be of particular relevance date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" "E" earlier application or patent but published on or after the international filing document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 12 June, 2009 (12.06.09) 23 June, 2009 (23.06.09) Name and mailing address of the ISA/ Authorized officer Japanese Patent Office

Form PCT/ISA/210 (second sheet) (April 2007)

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2009/001363

		PCT/JP2	009/001363
(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant	ant passages	Relevant to claim No
A	Kazuhiko SAWADA et al., "Mori no Kaori no Sayo", The Japanese journal of taste and research, 1999, Vol.6, No.3, pages 465 to Fig. 2	smell	1
A	WO 2005/23968 A1 (Shiseido Co., Ltd.), 17 March, 2005 (17.03.05), & US 2006/270587 A1 & EP 1661973 A1 & KR 10-2006-0090974 A & CN 1845938 A		1-4
A	JP 2006-290802 A (Kabushiki Kaisha Kanek 26 October, 2006 (26.10.06), (Family: none)	00),	1-4
P,X	Hongratanaworakit Tapanee, Relaxing effer of rose oil on humans, Natural product communications, 2009.02, Vol.4, No.2, pp.291-296, Table 2	ct	2

Form PCT/ISA/210 (continuation of second sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2009/001363

In the inventions according to claims 1 to 4 relating to an extract of Jasmin sambac, a steam distillate of Rosa damascena, 3-methyloctano-4-lactone and bornyl acetate, the skin temperature increasing agent as set forth in claim 2 is specifically supported since the effects of the above four components thereon are disclosed in the description. However, nothing but the effect of the Jasmin sambac extract is disclosed on the improvement in skin blood flow as set forth in claim 1, the shoulder stiffness as set forth in claim 3 and the hypersensitivity to cold as set forth in claim 4. Thus, the inventions according to claims 1, 3 and 4 are not fully supported by the description.

Document The Japanese journal of taste and smell research 1999, Vol.6, No.3, Page 465 to 468 that is cited in the international search report discloses experimental data wherein bornyl acetate caused little change in skin blood flow as described in claim 1.

Form PCT/ISA/210 (extra sheet) (April 2007)

REFERENCES CITED IN THE DESCRIPTION

This list of references cited by the applicant is for the reader's convenience only. It does not form part of the European patent document. Even though great care has been taken in compiling the references, errors or omissions cannot be excluded and the EPO disclaims all liability in this regard.

Patent documents cited in the description

- JP 2006008575 A [0008]
- JP 2004262878 A [0008]

• JP 2005068069 A [0008]